NAME:_____ DATE_____

Problem Solving Venn Diagrams

Question 2:

A business firm has 144 employees. 39 have Master's Degrees, 84 have a Bachelor's Degree, 42 have neither a Master's nor a Bachelor's degree. Some have both a Master's and a Bachelor's degree.

Evaluate a) The number of employees with both a Master's and a Bachelor's degree?

b) The number of employees with only a Bachelor's.

Solution: Fill in the spaces with the information given.

No. of employees, **U =** _____

No. of employees with a Master's, **n(M) =** _____

No. of employees with a Bachelor's, **n(B)=** _____

No. of employees with both, $\mathbf{n(M \cap B)} = \boldsymbol{x}$

No. of employees with none = _____

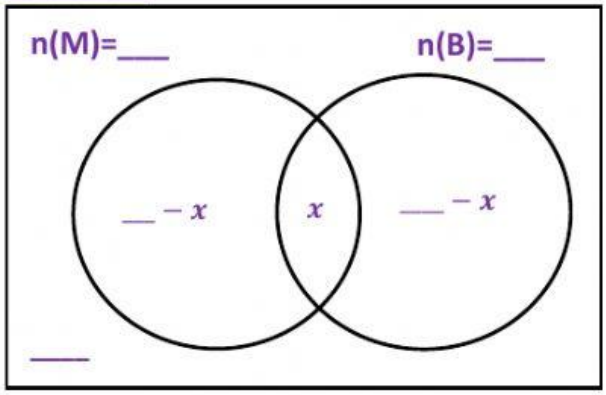
U = _____

$_ - x + x + __ - x + 42 = 144$

$____ + ___ + ___ - x = 144$

$____ - x = 144$

$n = ____ - ___ = ___$ **employees**



a) **n(M ___ B) = _____ employees**

b) **n (B only) = _____ employees**

LIVEWORKSHEETS